

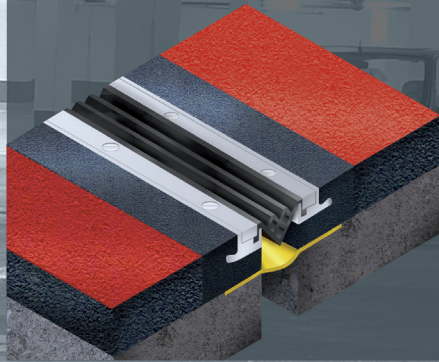



USL America

[www.uslamerica.com](http://www.uslamerica.com)

## UCP Expansion Joints

Parking garages, footbridges and elevated structures



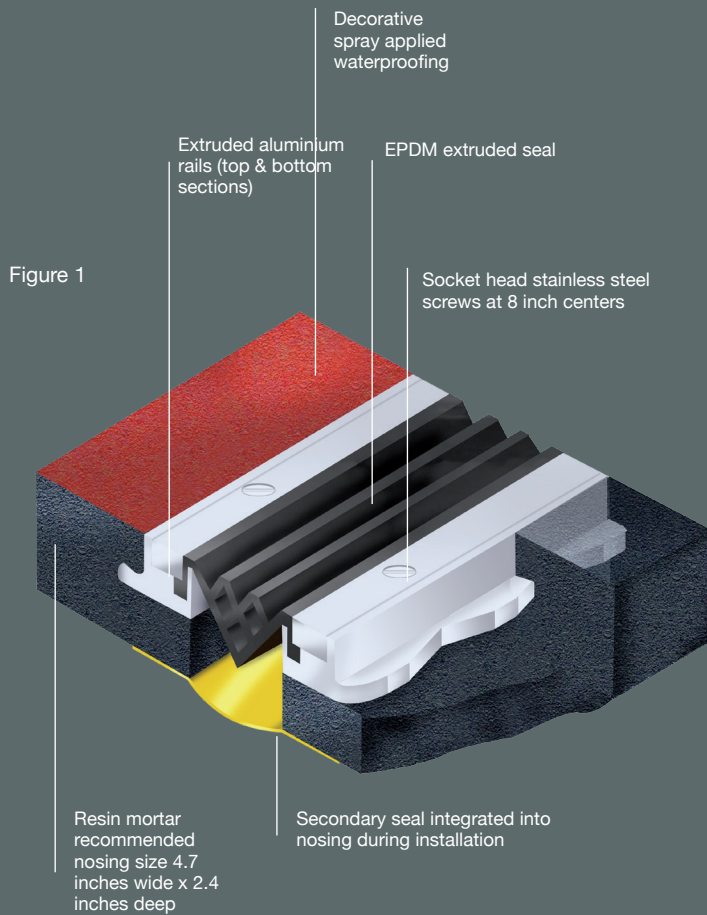
A close-up, high-angle photograph of a road surface featuring a series of parallel expansion joints. The joints are made of a dark, textured material, likely rubber or a similar composite, and are secured with metal bolts. The road surface is a dark, granular material, possibly asphalt or a similar aggregate. The perspective is from above, looking down the length of the joints, which recede into the distance.

USL America

Britflex UCP  
Expansion Joints

## Market leaders in Expansion Joint Technology

The UCP expansion joint system has been carefully developed to provide a safe, efficient and economical method of sealing deck movement joints. These joints utilize the proven design technology successfully used in the BEJ range of expansion joints which are extensively used in many applications and has an unrivalled 30 year track record.



## UCP overview

Unlike conventional expansion joints which require deck drilling, the UCP joint is a surface mounted mechanical system which is bonded into the deck using a specially formulated polyureide resin.

Significant savings in installation costs and site possession periods can be achieved with each installation.

There are currently two sizes of joint within the range UCP 2" and 2.8", capable of accommodating horizontal movements of 50mm and 70mm respectively.

In addition to the unique design, longevity and ease of installation, the joints are produced to the highest standards.

These include heavy gauge aluminium rails, a resilient waterproof EPDM seal and additional secondary waterproof membrane.

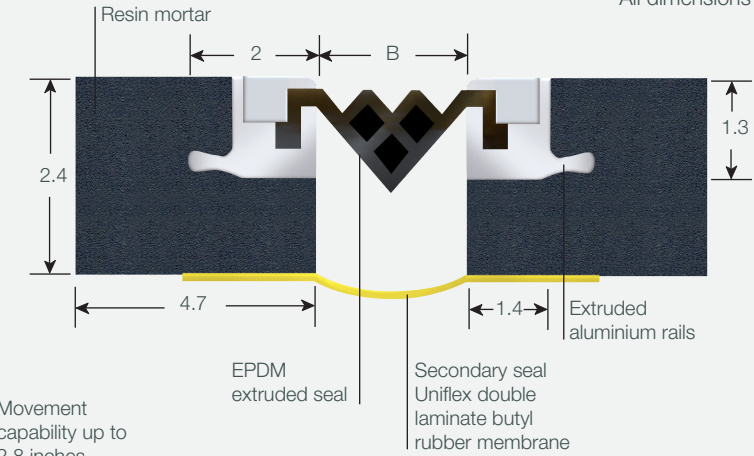
UCP joints are particularly suitable for applications where watertightness, low noise and smooth riding characteristics are paramount.

USL America has a progressive attitude to product development, manufacturing excellence and quality control.

UCP design detail

UCP	Movement Capacity		Minimum Nosing Sizes		Nominal Nosing Gap	Minimum Nosing Gap	Maximum Nosing Gap
	Horizontal	Vertical	C	D	B	B.Min	B.Max
2	2	±.5	4.7	2.4	2	1	3
2.8	2.8	±.6	4.7	2.4	2.8	1.2	4.1

All dimensions in inches



Movement capability up to 2.8 inches

System advantages

- Versatile
- Watertight
- Rapid installation
- No drilling of deck required
- No mechanical fixings
- EPDM seal easily removed if required
- Provides quiet comfortable riding characteristics
- Capable of accommodating movement up to 2.8 inches

Other applications

Applications for UCP joints are numerous and include:

- Multi-story parking garages
- Plazas and elevated structures
- Pedestrian footbridges
- Access and egress ramps

Each UCP joint is available from stock. Special sections are available to accommodate changes in direction both in plan and elevation. Furthermore, intersections are available at 90° changes of direction or other skew angles as requested.

Specification for the UCP Expansion Joint

Materials

- i) Polyureide Resin  
The Polyureide Resin is a two part liquid system comprising one clear component (base) and one black (hardener), packed in colour coded drums.
- ii) Aggregate:  
The aggregate is a graded mix supplied in sealed plastic bags.
- iii) Aluminium Rails:  
The extrusions are supplied in 13 foot lengths and are cut to length on site to suit requirements. Kerb units and sized junctions may be prefabricated when considered necessary.
- iv) EPDM Elastomeric Insert: The extruded elastomeric insert is available in two sizes, namely UCP 50 and 70.  
  
The insert is supplied and installed in one continuous length up to 164 feet unless otherwise specified.
- (v) Secondary Membrane: Uniflex membrane is a butyl rubber membrane capable of withstanding elongation.



## Additional information

### Notes

The colors used in the illustrations may not be indicative of the finished product.

### Technical & Advisory Service

Further technical information may be obtained on request and consultation is encouraged to ensure choice of materials selected and detailing are optimised to suit in-service performance requirements and economic solutions.



## Additional services

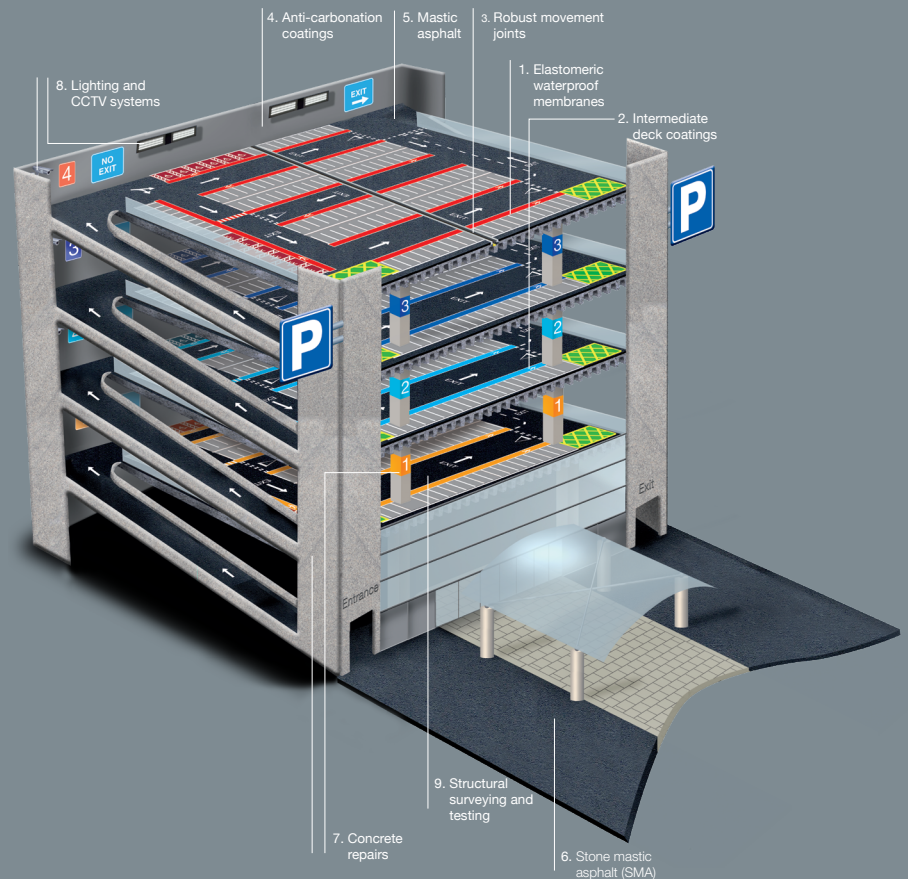
### Turn key options

In addition to expansion joints, USL America also offers their clients the comfort of a 'one stop shop' parking garage refurbishment solution by using a range of state of the art, high performance, proprietary systems including:

- Structural waterproofing
- Anti carbonation / protective coatings
- Asphalt
- Concrete repairs
- Structural surveying and testing

Clients should be safe in the knowledge that all products are manufactured to strict quality standards and all work is carried out by USL America's own highly trained and experienced contracting teams.

For more information on USL America's services, please refer to their company brochure or visit [www.uslamerica.com](http://www.uslamerica.com)







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